

SUBMIT: COMPLETED APPLICATION, TAX STATEMENT AND FEE TO:

Bayfield County  
Planning and Zoning Depart.  
PO Box 58  
Washburn, WI 54891  
(715) 373-6138

APPLICATION FOR PERMIT  
BAYFIELD COUNTY, WISCONSIN

Date Stamp (Received)

SEP 14 2017

Bayfield Co. Zoning Dept.

ENTERED

Permit #:

17-0477

Date:

12-12-17

Amount Paid:

PAID 100  
#2249

Refund:

INSTRUCTIONS: No permits will be issued until all fees are paid.  
Checks are made payable to: Bayfield County Zoning Department.

DO NOT START CONSTRUCTION UNTIL ALL PERMITS HAVE BEEN ISSUED TO APPLICANT.

TYPE OF PERMIT REQUESTED → <input checked="" type="checkbox"/> LAND USE <input type="checkbox"/> SANITARY <input type="checkbox"/> PRIVY <input type="checkbox"/> CONDITIONAL USE <input type="checkbox"/> SPECIAL USE <input type="checkbox"/> B.O.A. <input type="checkbox"/> OTHER	
Owner's Name: <u>Town of Bayview</u>	
Mailing Address: <u>32800 Burlager</u>	
City/State/Zip: <u>Washburn, WI 54891</u>	
Telephone: <u>715-373-5565</u>	
Address of Property: <u>Bay Houghton Falls Rd</u>	
City/State/Zip: <u>Washburn, WI 54891</u>	
Cell Phone: <u>715-813-0218</u>	
Contractor:	
Contractor Phone:	
Plumber:	
Plumber Phone:	
Authorized Agent: (Person Signing Application on behalf of Owner(s)) <u>Charles Ray, Chair</u>	
Agent Phone:	
Agent Mailing Address (include City/State/Zip):	
Written Authorization Attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
PROJECT LOCATION	Legal Description: (Use Tax Statement)
Tax ID# (4-5 digits) <u>6591, 6592, 6590, 7072, 7074, 7073</u>	
Recorded Deed (i.e. # assigned by Register of Deeds) <u>Vol 1044 P 151-161</u>	
Document #:	
Subdivision:	
1/4, 1/4	
Gov't Lot	
Lot(s)	
CSM	
Vol & Page	
Lot(s) No.	
Block(s) No.	
Section <u>27</u> , Township <u>49</u> N, Range <u>04</u> W	
Town of: <u>Bayview</u>	
Lot Size	
Acreage <u>92</u>	

<input checked="" type="checkbox"/> Shoreland →	<input checked="" type="checkbox"/> Is Property/Land within 300 feet of River, Stream (incl. Intermittent) Creek or Landward side of Floodplain? <b>If yes---continue →</b>	Distance Structure is from Shoreline : _____ feet	Is Property in Floodplain Zone? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Are Wetlands Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	<input checked="" type="checkbox"/> Is Property/Land within 1000 feet of Lake, Pond or Flowage <b>If yes---continue →</b>	Distance Structure is from Shoreline : _____ feet		
<input type="checkbox"/> Non-Shoreland				

Value at Time of Completion * include donated time & material	Project	# of Stories and/or basement	Use	# of bedrooms	What Type of Sewer/Sanitary System is on the property?	Water
\$ <u>40,000</u>	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> 1-Story	<input type="checkbox"/> Seasonal	<input type="checkbox"/> 1	<input type="checkbox"/> Municipal/City	<input type="checkbox"/> City
	<input type="checkbox"/> Addition/Alteration	<input type="checkbox"/> 1-Story + Loft	<input checked="" type="checkbox"/> Year Round	<input type="checkbox"/> 2	<input type="checkbox"/> (New) Sanitary Specify Type: _____	<input type="checkbox"/> Well
	<input type="checkbox"/> Conversion	<input type="checkbox"/> 2-Story	<input type="checkbox"/> _____	<input type="checkbox"/> 3	<input type="checkbox"/> Sanitary (Exists) Specify Type: _____	<input checked="" type="checkbox"/> None
	<input type="checkbox"/> Relocate (existing bldg)	<input type="checkbox"/> Basement		<input type="checkbox"/> _____	<input type="checkbox"/> Privy (Pit) or <input type="checkbox"/> Vaulted (min 200 gallon)	
	<input type="checkbox"/> Run a Business on Property	<input checked="" type="checkbox"/> No Basement		<input checked="" type="checkbox"/> None	<input type="checkbox"/> Portable (w/service contract)	
	<input type="checkbox"/> _____	<input type="checkbox"/> Foundation			<input type="checkbox"/> Compost Toilet	
				<input checked="" type="checkbox"/> None		

Existing Structure: (if permit being applied for is relevant to it)	Length:	Width:	Height:
Proposed Construction: <u>see attached</u>	Length:	Width:	Height:

Proposed Use	✓	Proposed Structure	Dimensions	Square Footage
<input type="checkbox"/> Residential Use	<input type="checkbox"/>	Principal Structure (first structure on property)	( X )	
	<input type="checkbox"/>	Residence (i.e. cabin, hunting shack, etc.)	( X )	
		with Loft	( X )	
		with a Porch	( X )	
		with (2 <sup>nd</sup> ) Porch	( X )	
		with a Deck	( X )	
<input type="checkbox"/> Commercial Use		with (2 <sup>nd</sup> ) Deck	( X )	
		with Attached Garage	( X )	
<input checked="" type="checkbox"/> Municipal Use	<input type="checkbox"/>	Bunkhouse w/ ( <input type="checkbox"/> sanitary, or <input type="checkbox"/> sleeping quarters, or <input type="checkbox"/> cooking & food prep facilities)	( X )	
	<input type="checkbox"/>	Mobile Home (manufactured date) _____	( X )	
	<input type="checkbox"/>	Addition/Alteration (specify) _____	( X )	
	<input type="checkbox"/>	Accessory Building (specify) _____	( X )	
	<input type="checkbox"/>	Accessory Building Addition/Alteration (specify) _____	( X )	
	<input type="checkbox"/>	Special Use: (explain) _____	( X )	
	<input type="checkbox"/>	Conditional Use: (explain) _____	( X )	
	<input checked="" type="checkbox"/>	Other: (explain) <u>Stairway to lake</u>	( X )	

FAILURE TO OBTAIN A PERMIT OR STARTING CONSTRUCTION WITHOUT A PERMIT WILL RESULT IN PENALTIES

I (we) declare that this application (including any accompanying information) has been examined by me (us) and to the best of my (our) knowledge and belief it is true, correct and complete. I (we) acknowledge that I (we) am (are) responsible for the detail and accuracy of all information I (we) am (are) providing and that it will be relied upon by Bayfield County in determining whether to issue a permit. I (we) further accept liability which may be a result of Bayfield County relying on this information I (we) am (are) providing in or with this application. I (we) consent to county officials charged with administering county ordinances to have access to the above described property at any reasonable time for the purpose of inspection.

Owner(s): Charles Ray  
(If there are Multiple Owners listed on the Deed All Owners must sign or letter(s) of authorization must accompany this application)

Date 12/8/17

Authorized Agent: \_\_\_\_\_  
(If you are signing on behalf of the owner(s) a letter of authorization must accompany this application)

Date \_\_\_\_\_

Address to send permit \_\_\_\_\_

Attach

Copy of Tax Statement

If you recently purchased the property send your Recorded Deed

APPLICANT - PLEASE COMPLETE PLOT PLAN ON REVERSE SIDE



In the box below: **Draw or Sketch your Property** (regardless of what you are applying for)

- (1) Show Location of:

Proposed Construction
- (2) Show / Indicate:

North (N) on Plot Plan
- (3) Show Location of (\*):

(\*) Driveway and (\*) Frontage Road (Name Frontage Road)
- (4) Show:

All Existing Structures on your Property
- (5) Show:

(\*) Well (W); (\*) Septic Tank (ST); (\*) Drain Field (DF); (\*) Holding Tank (HT) and/or (\*) Privy (P)
- (6) Show any (\*):

(\*) Lake; (\*) River; (\*) Stream/Creek; or (\*) Pond
- (7) Show any (\*):

(\*) Wetlands; or (\*) Slopes over 20%

See attached map

Please complete (1) – (7) above (prior to continuing)

Changes in plans must be approved by the Planning & Zoning Dept.

(8) Setbacks: (measured to the closest point)

Description	Measurement		Description	Measurement
Setback from the Centerline of Platted Road	Feet		Setback from the Lake (ordinary high-water mark)	Feet
Setback from the Established Right-of-Way	Feet		Setback from the River, Stream, Creek	Feet
			Setback from the Bank or Bluff	Feet
Setback from the North Lot Line	Feet			
Setback from the South Lot Line	Feet		Setback from Wetland	Feet
Setback from the West Lot Line	Feet		20% Slope Area on property	<input type="checkbox"/> Yes <input type="checkbox"/> No
Setback from the East Lot Line	Feet		Elevation of Floodplain	Feet
Setback to Septic Tank or Holding Tank	Feet		Setback to Well	Feet
Setback to Drain Field	Feet			
Setback to Privy (Portable, Composting)	Feet			
Prior to the placement or construction of a structure within ten (10) feet of the minimum required setback, the boundary line from which the setback must be measured must be visible from one previously surveyed corner to the other previously surveyed corner or marked by a licensed surveyor at the owner's expense.				
Prior to the placement or construction of a structure more than ten (10) feet but less than thirty (30) feet from the minimum required setback, the boundary line from which the setback must be measured must be visible from one previously surveyed corner to the other previously surveyed corner, or verifiable by the Department by use of a corrected compass from a known corner within 500 feet of the proposed site of the structure, or must be marked by a licensed surveyor at the owner's expense.				

(9) Stake or Mark Proposed Location(s) of New Construction, Septic Tank (ST), Drain field (DF), Holding Tank (HT), Privy (P), and Well (W).

**NOTICE:** All Land Use Permits Expire One (1) Year from the Date of Issuance if Construction or Use has not begun.  
For The Construction Of New One & Two Family Dwelling: ALL Municipalities Are Required To Enforce The Uniform Dwelling Code.  
The local Town, Village, City, State or Federal agencies may also require permits.

Issuance Information (County Use Only)		Sanitary Number: NA		# of bedrooms:		Sanitary Date:									
Permit Denied (Date):		Reason for Denial:													
Permit #: 17-0477		Permit Date: 12-12-17													
Is Parcel a Sub-Standard Lot Is Parcel in Common Ownership Is Structure Non-Conforming		<input type="checkbox"/> Yes (Deed of Record) <input checked="" type="checkbox"/> Yes (Fused/Contiguous Lot(s)) <input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> No		Mitigation Required Mitigation Attached		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No		Affidavit Required Affidavit Attached		<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No			
Granted by Variance (B.O.A.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Case #:				Previously Granted by Variance (B.O.A.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Case #:											
Was Parcel Legally Created Was Proposed Building Site Delineated				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No PLATTED				Were Property Lines Represented by Owner Was Property Surveyed				<input checked="" type="checkbox"/> Yes @delby <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Inspection Record: Inspected by Krystal. Site flagged at locations of boardwalk, stairs, + gravel.										Zoning District (R-PB) Lakes Classification (1-Superior 3-Creek)					
Date of Inspection:				Inspected by: J. Murphy				Date of Re-Inspection:							
Condition(s): Town, Committee or Board Conditions Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No – (If No they need to be attached.) please see attached letter for conditions. No purchaseon style boardwalks allowed in wetlands. No dimensions are approved as "approximate". If stairs + boardwalk are any dimension other than approved, the application shall be amended.															
Signature of Inspector:										Date of Approval: 11-29-17					
Hold For Sanitary: <input type="checkbox"/>		Hold For TBA: <input type="checkbox"/>		Hold For Affidavit: <input type="checkbox"/>		Hold For Fees: <input type="checkbox"/>									

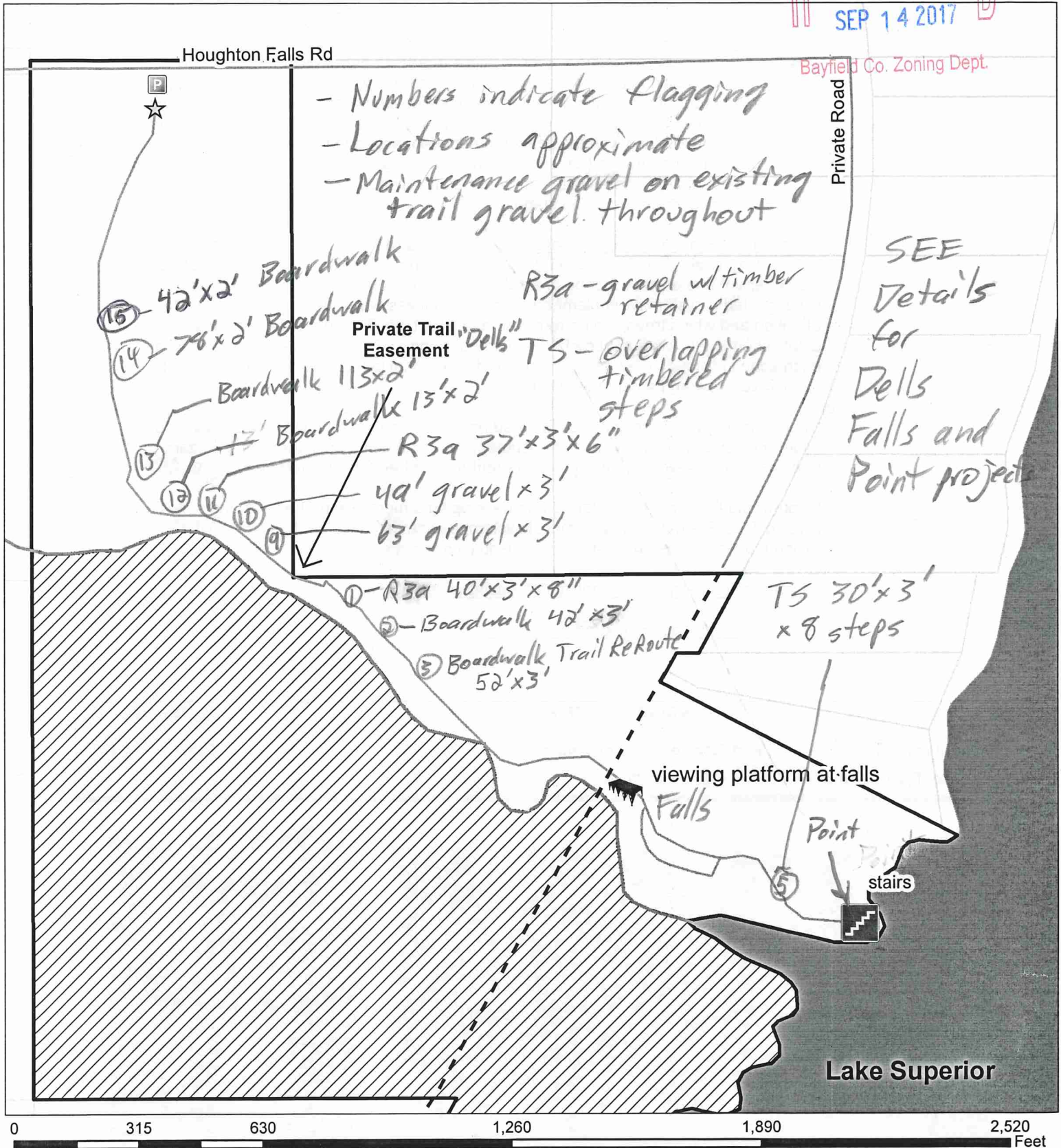
Cuty Applied for + was approved for trail work on their property w/in easement.



# Houghton Falls Nature Preserve Map & Proposed Infrastructure

Bayfield County, Wisconsin

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## Preserve Features

Lake Superior	State Natural Area Designation	Abandoned Railroad Grade	Parking
Private Land	Roads	Streams	
Houghton Falls Nature Preserve - 76 Acres	Trail	Trailhead	

Bayfield Regional Conservancy 10/14/2015





**Year Scheduled**

**Recommended Forest Management Practices**

????

**PERIODIC THINNING** – Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines. Focus on removing the high-risk (high-risk trees are defined as those trees which will not survive until the next entry, and low-vigor trees along with the scattered decadent aspen in the first thinning. Consider canopy gaps or small groups (canopy openings that range from ¼ to ½ acre in size OR 60 to 83 feet in diameter) where white pine regeneration is abundant to allow for their continual advancement within the stand.

**Hazard Tree Evaluation and Removal** – Conduct hazard tree evaluation and removal on an on-going-basis. The Camp Staff has actively been doing this for some time, but due to the sheer volume of trees that pose a safety hazard to both camp facilities and campers, it is suggested a system be implemented which prioritizes which trees require immediate attention and which trees can be removed at a later time. Tree hazard risk zones can be established (High, Medium, Low), based on buildings and traffic (pedestrian), and within each zone individual trees are assessed and a potential failure number is determined with 1 being very low and 4 being very high.

Understanding which trees are considered hazardous is the first step. Enclosed in your folder are several publications and documents that can help you in identifying hazard trees as well as several examples of different hazard tree forms different groups use.

If you would like further assistance with developing a more comprehensive and specific Hazard Tree Evaluation and Removal system, please contact Don Kissinger, WIDNR Urban Forestry Assistant located in Wausau (don.kissinger@wisconsin.gov). (715) 359-5793

[http://na.fs.fed.us/spfo/pubs/howtos/ht\\_haz/ht\\_haz.PDF](http://na.fs.fed.us/spfo/pubs/howtos/ht_haz/ht_haz.PDF)

<http://www.forestpathology.org/hazard.html>

**STAND NUMBER 2**

**15 Acres**

**Primary Type:** PR 5-9<sup>3</sup>

**Red Pine Forest – Poletimber**

**Basal Area = 152**

**Secondary Type:** Ox 0-5<sup>1</sup>

**Scrub Oak – Saplings**



*Snag/Den Tree*



## Jennifer Croonborg-Murphy

**From:** Charly Ray <raycharly7@gmail.com>  
**Sent:** Tuesday, September 05, 2017 3:02 PM  
**To:** Jennifer Croonborg-Murphy  
**Subject:** Houghton Falls

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Jenny-

Met with Erika from BRC out at Houghton on Friday and laid out the trail for permitting. We flagged all the areas and numbered/labeled the flags and have corresponding notes and linear measurements.

There were only three spots that are just gravel treatments which we would like put on the permit for shoreline grading:

Flag 7 for 17'

Flag 9 for 63'

Flag 10 for 49'

These would be by 3' wide and 3" deep approximately. The numbered flag is at the parking lot end of the work area and an unmarked flag is at the end. I don't have GPS points for these spots. Do you need more information on them to include in the permit?

The first flags you encounter from the parking lot are the last ones we put in because we started at the Dells area, then worked our way to the lake then came back. The flags at the Dells mark the rails along the side of the trail and are labeled as such. I will draft some details of the work proposed at the Dells, the Falls and the Point.

The numbered flags refer to the following notes:

Flag 1 - 40' x 8" sideboard with gravel 3' wide.

2 - 35' 2x24" boardwalk

3 - 52' 2x24" board walk trail reroute

4 - 30' railing

5 - 30' boxed gravel steps 3 steps at 8" each

6 - 56' railing - use rope and signage for vegetative restoration area

7 - gravel (listed above)

8 - 20' boxed gravel 3 steps at 6" ea.

9 - 63' gravel (listed above)

10 - 49' gravel (listed above)

11 - 37' with a 6" sidewall gravel x 3'

12 - 13' 2x24" board walk

13 - 113' 2x24" board walk

14 - 33' 2x24" board walk.

Please visit the site at your earliest convenience in case the flags are disturbed. I will get out next chance I get. Will work on the sketches for you this evening. I've discussed the rails and boardwalk lake access with Rob.

Regards,

Charly Ray  
[715-813-0218](tel:715-813-0218)

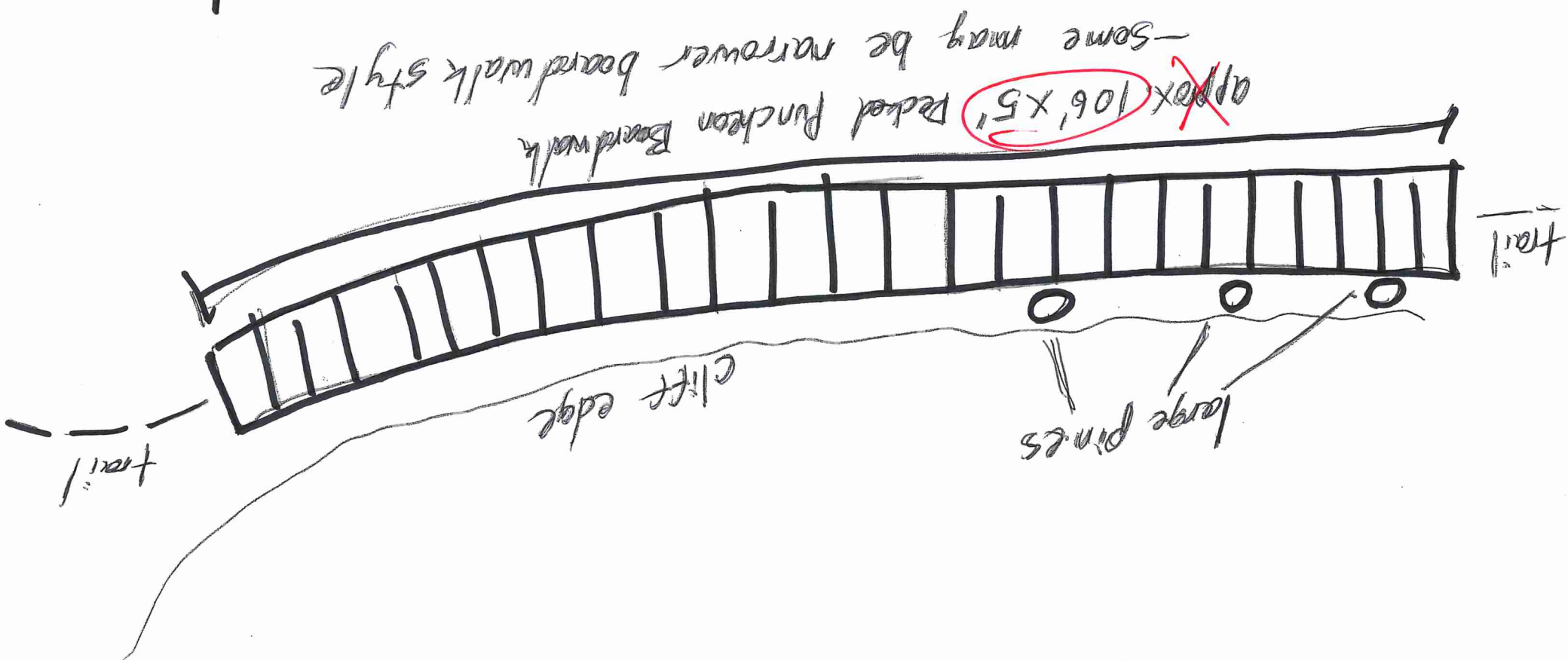
all the gravel was  
removed or  
a separate  
shoreland  
filling/grading  
app I  
this permit  
is only for  
stairs + boardwalk



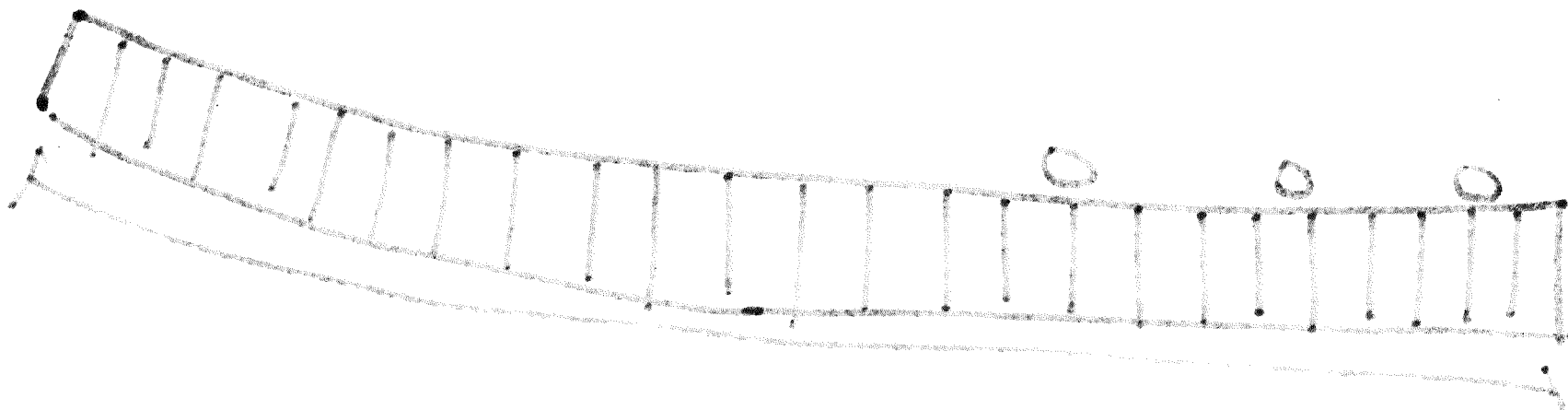




"FALLS" Viewing Platform





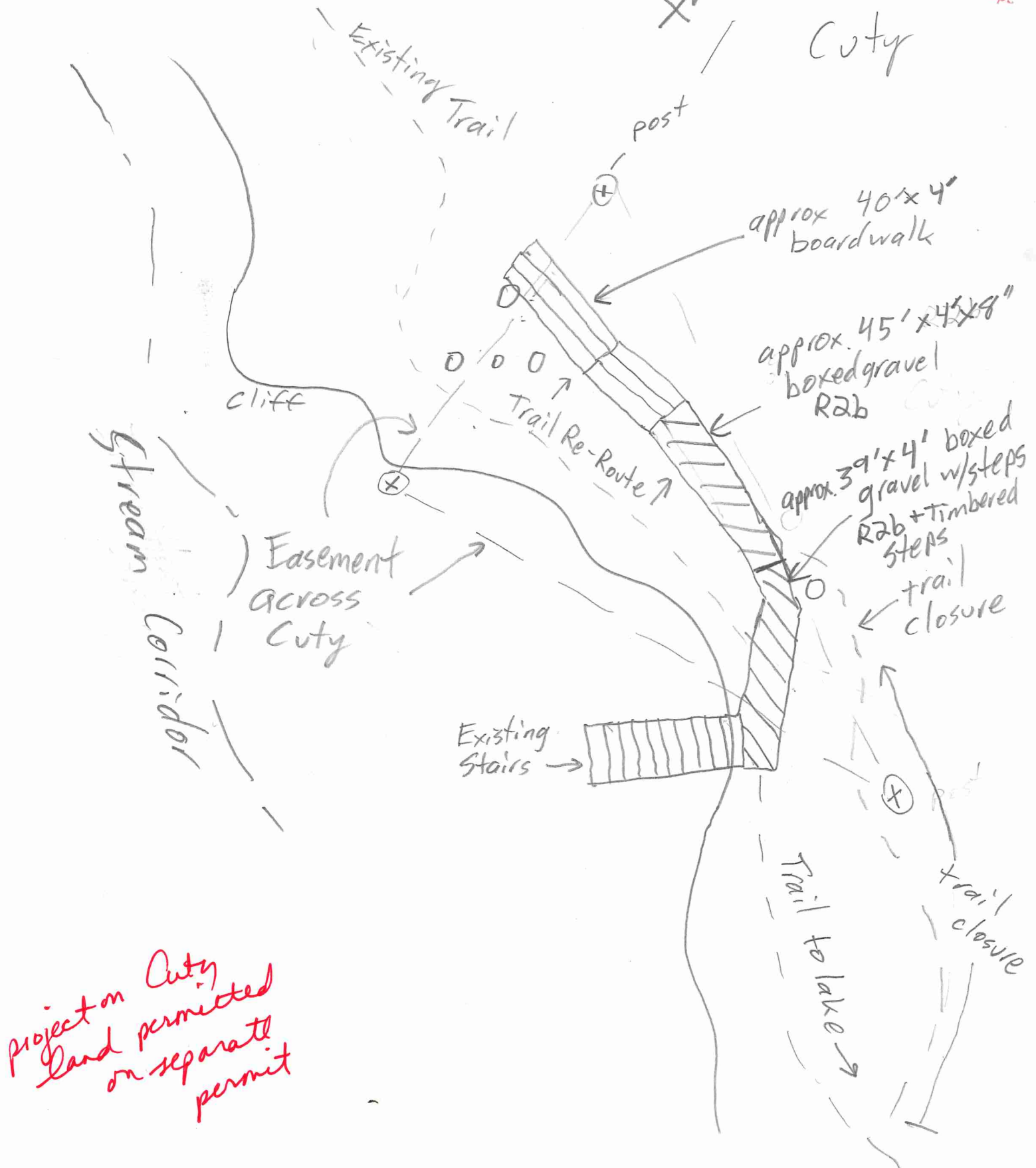


↓



# Detail of Private Trail Easement Area "Dells"

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Project on Cuty  
Land permitted  
on separate  
permit

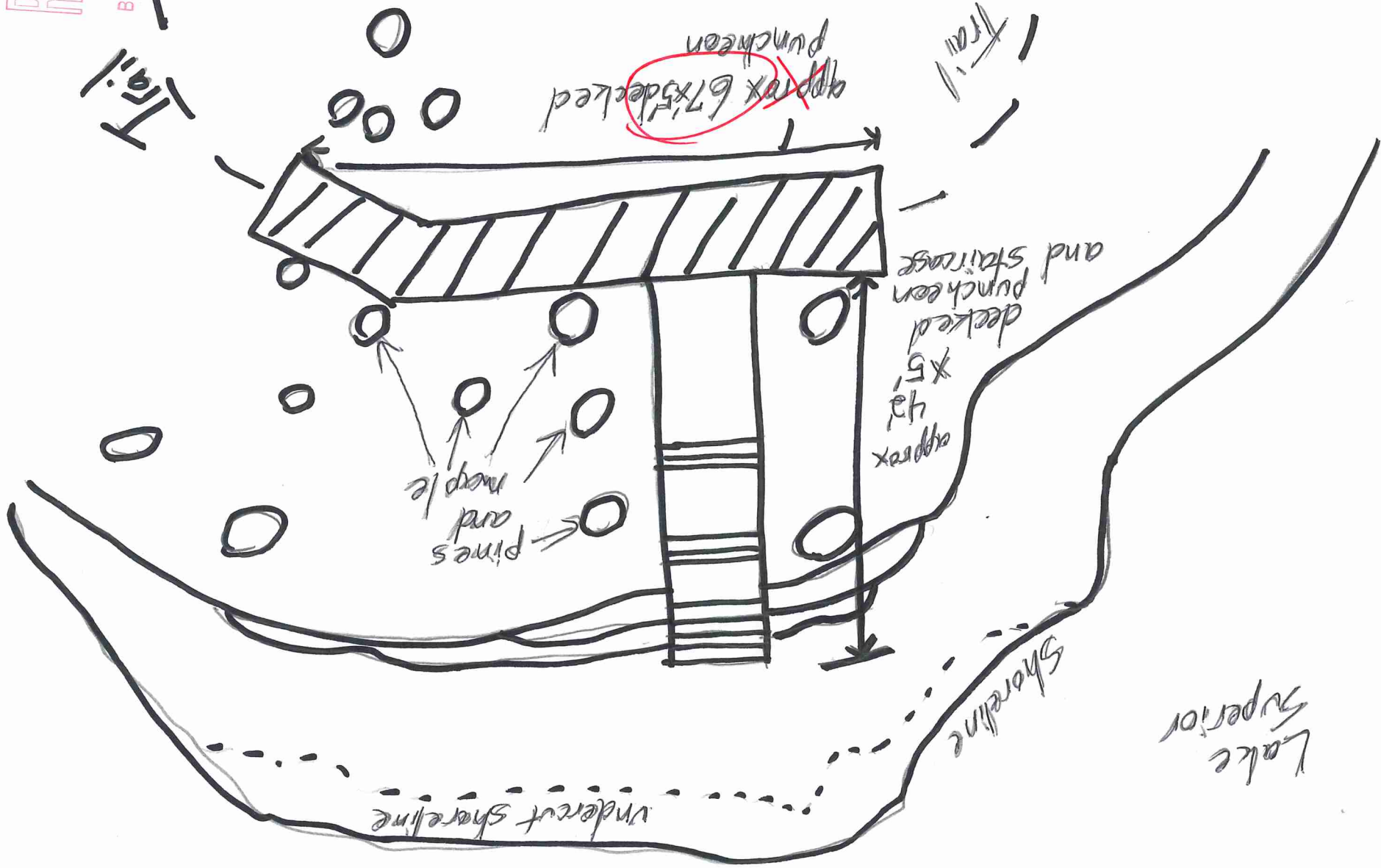
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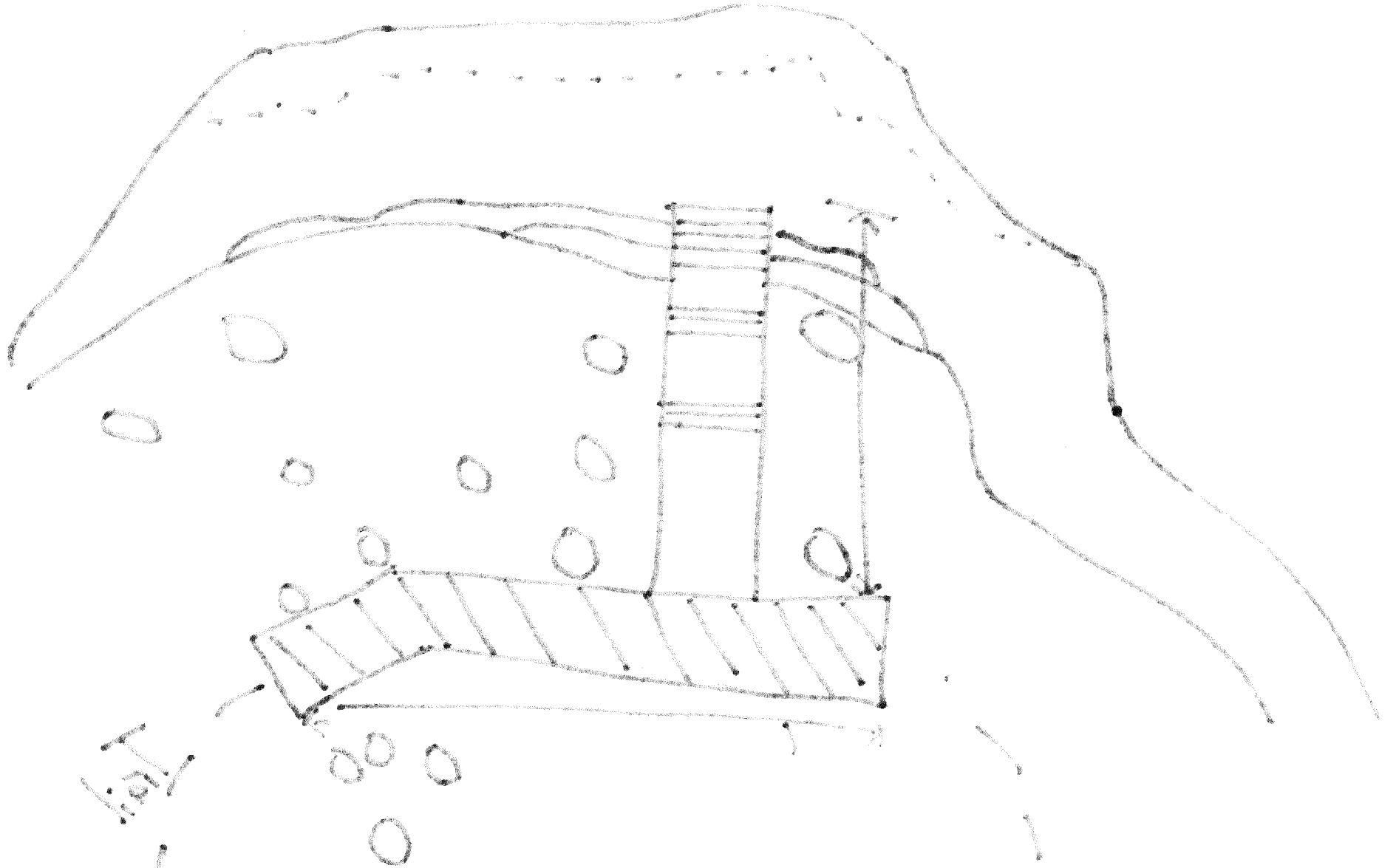


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# "POINT" Stair Access at Houghton Point





High

"POINT" Star Access at  
Houghton Point



Town of Bayview

HOUGHTON FALLS

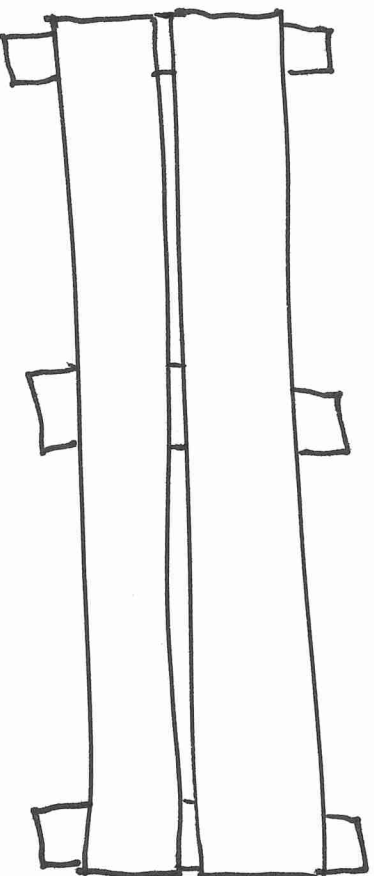
BOARDWALK

side view



3-4" cedar posts

top view



2" x 12" planks

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Bayfield Co. Zoning Dept.

Jodi



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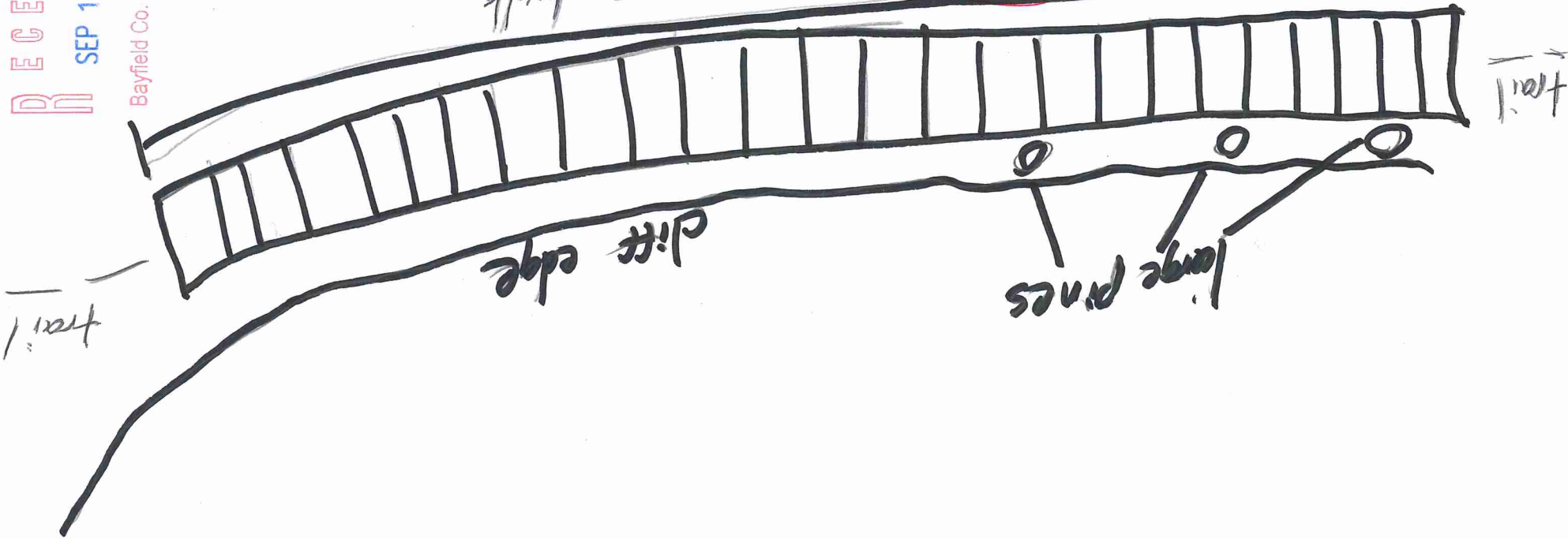
# "Falls" Viewing Platform



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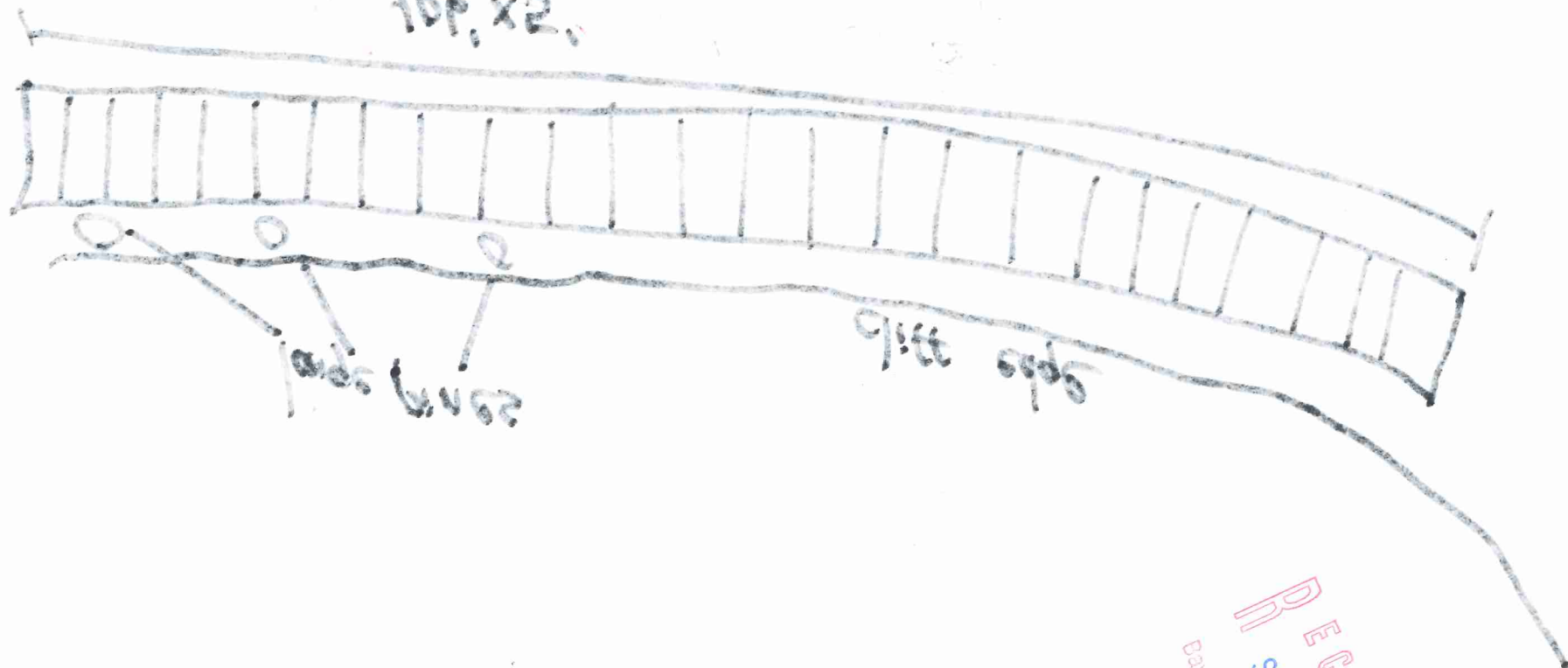
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~~approx. 106' x 5'~~ Decked Puncture Boardwalk  
- some may be narrower boardwalk style



W

10P, x2,



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Wright's "2014" Naming





### Stand Conditions, Special Features or Characteristics

This forest stand is considered non-productive from a timber management standpoint. Stand productivity is defined as the ability to grow 20 cubic feet per acre per year, rotation age ranges from 70 to 120 years depending on soil type (mineral vs. organic). In addition, ages for these areas are unknown and would need to be taken to determine which rotation length is appropriate. However, it is considered very productive from an ecological standpoint and be protected.

### Management (Silvicultural) System

These areas are designated as a non-forest management zones.

Year Scheduled	Recommended Forest Management Practices
N/A	No management – Protect areas by keeping mechanical equipment out. These areas serve best as a wildlife “islands” for a variety of species including amphibians, mammals and reptiles.

STAND NUMBER 6		
Primary Type: Muskeg Bog	Muskeg Bog	3 Acres

### Stand Information

Muskegs or Bogs are on lowland sites and predominantly consist of sphagnum moss, cotton grass, leatherleaf, cranberry, Labrador tea and other wetland plants. Muskegs support scattered trees, including black spruce, tamarack, and jack pine. Muskegs and bogs generally occur in muck soils that are saturated with water year round. These areas best serve as protected, non-managed areas to protect water quality and provide critical habitat for wildlife.

Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that grows on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

This stand has a muck soil. Muck soils usually occur in wetlands, and have a surface layer of decomposed plant material at least 16" thick. The extent of decomposition of plant parts prevents identification of the original vegetation. Muck soils are wet, so organic matter decomposes slowly and nutrients may not always be available for tree growth. Trees that grow on peat soils are adapted to wet conditions and are typically slow growing. Take care to prevent compaction and rutting when using equipment on these soils. In general, conduct management activities only when the ground is well frozen. These soils may be unsuitable for whole-tree harvesting and the harvesting of fine woody material because of their potential for nutrient depletion.

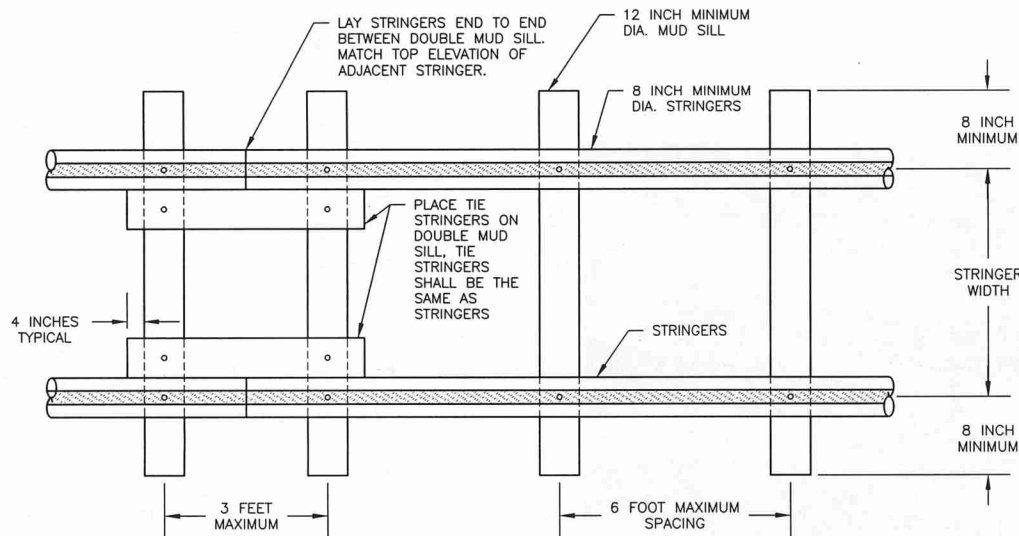
### Stand Conditions, Special Features or Characteristics

This small muskeg bog is located between the pine grove to the south and the access road that borders it to the north and east. A small wooden bridge crosses over it with several interpretive signs providing the visitor information of the ecological importance of this habitat.

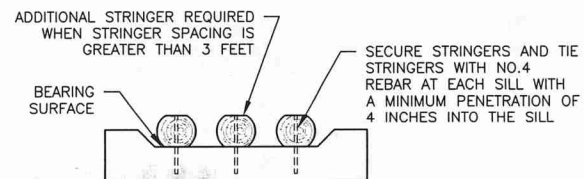
### Management (Silvicultural) System

NO SILVICULTURAL SYSTEM APPLICABLE -- This stand is designated as non-productive. Passive management of this stand will result in the continual process of natural succession. Over long periods of time, seasonal ponds and lowland brush and grasses often convert to both lowland and upland forest.

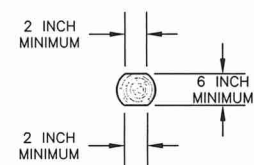




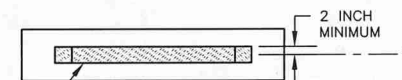
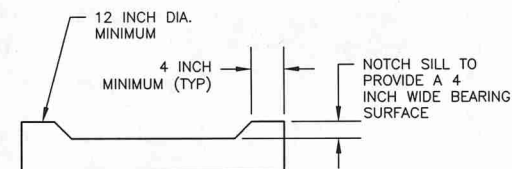
MUD SILL AND STRINGER LAYOUT



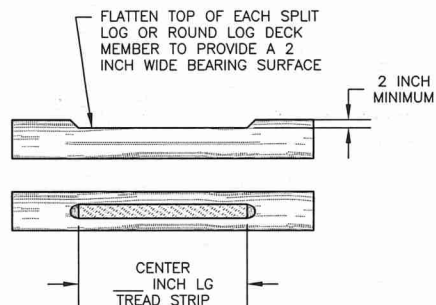
MUD SILL AND STRINGER LAYOUT



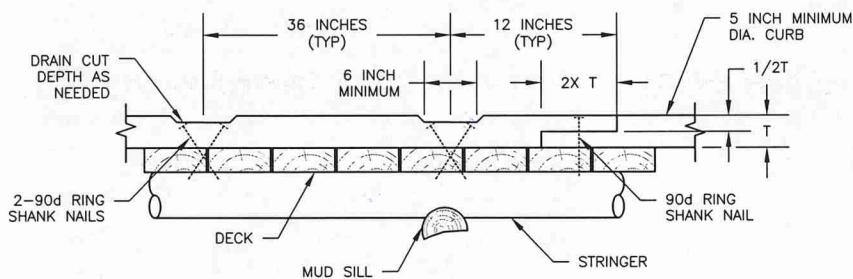
LOG STRINGER DETAIL



MUD SILL DETAIL

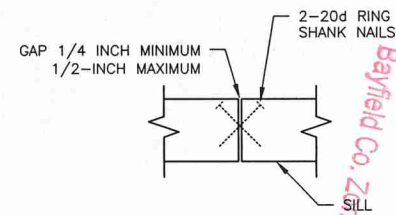


TREAD STRIP DETAIL



DRAIN SLOT DETAIL

TYPICAL LAP JOINT  
T = THICKNESS OF RETAINER



TYPICAL BUTT JOINT

Bayfield Co. Zoning Dept.  
 SEP 14 2017



**STAND NUMBER 4**

**43 Acres**

**Primary Type: PR 9-15<sup>2</sup>  
Secondary Type: PR 5-9<sup>4</sup>**

**Red Pine Forest – Small Sawtimber  
Red Pine Forest – Poletimber**

**Basal Area = 152**

*Photo #7*



*Photo#8*



*Photo #9*

**Stand Information**

The most abundant tree species in this stand are red pine (73%), Scotch pine (16%), and jack pine (9%).

These trees make up a two-aged stand with two distinct age classes. The oldest age class of trees originated around 1956, and a second inter-planting occurred around 1980. A third age group of Scotch pine was planted around 1950. Management practices must take into account that some trees will become mature earlier than other trees.

This stand has a sandy soil (SaB, & RoB – Sayner and Rubicon sands). Sand-sized particles make up 85% or more of this soil, along with up to 15% silt plus clay. Sand particles are larger than silt or clay particles, making these soils drain rapidly. Sandy soils tend to be droughty and nutrient-poor. Trees that are adapted to grow on sandy soils can be either short- or long-lived, and must be able to tolerate extended periods of drought.

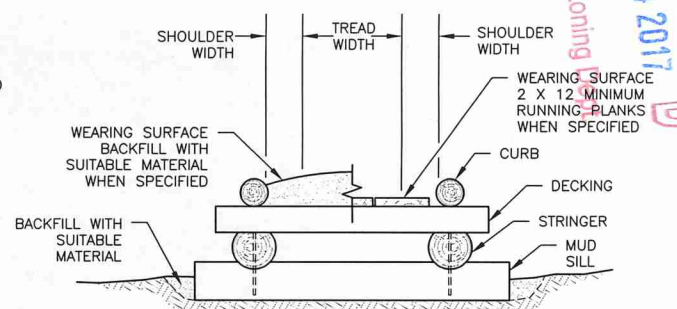
Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that will grow on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

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RECEIVED  
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SURFACE  
MUM  
ANKS  
CIED

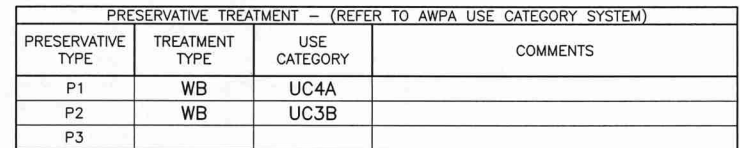
Bayfield Co. Zoning

SEP 14 2017



### TYPICAL SECTION

1. PRE-DRILL HOLES FOR FASTENERS TO PREVENT SPLITTING OF LOGS OR SAWN TIMBERS.
2. RECESS END OF REBAR 1/2 INCH BELOW TOP OF STRINGERS.
3. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
4. ALL FIELD DRILLED HOLES AND CUTS SHALL BE FIELD TREATED.
5. FINAL DECK ELEVATION FOR RUNNING PLANKS OR DECKING SHALL BE NO MORE THAN 1/2 INCH DIFFERENCE IN ELEVATION.



USE CATEGORY

UC3B	= ABOVE GROUND	- EXPOSED	SHEET 1 OF 2
UC4A	= GROUND CONTACT	- GENERAL USE	
UC4B	= GROUND CONTACT	- HEAVY DUTY	



DRAWING NAME

REVISION DATE  
XX/XX/XX

**NO SCALE**

DRAWING NO.  
**STD\_934-10-01**

SHEET |  
OF



Photo #6



**Management (Silvicultural) System**

These areas will be designated as a non-forest management zones due to aesthetic concerns.

Year Scheduled	Recommended Forest Management Practices
Annually	Hazard Tree Evaluation and Removal.
When Possible	Consider underplanting white pine and white spruce in and around the buildings, especially near Nash Lodge. The combination of a high traffic area along with a high deer population makes regeneration a challenge. Still plant these trees away from the main corridors and consider fencing the trees until they grow above deer browse height (see the enclosed information of tree planting and fencing).

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# "BOARDWALK"

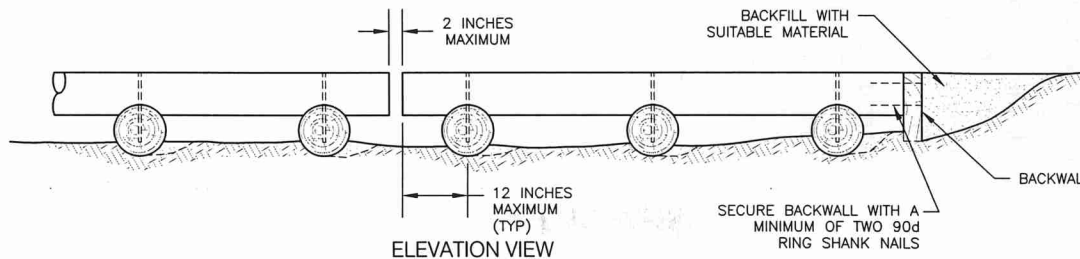
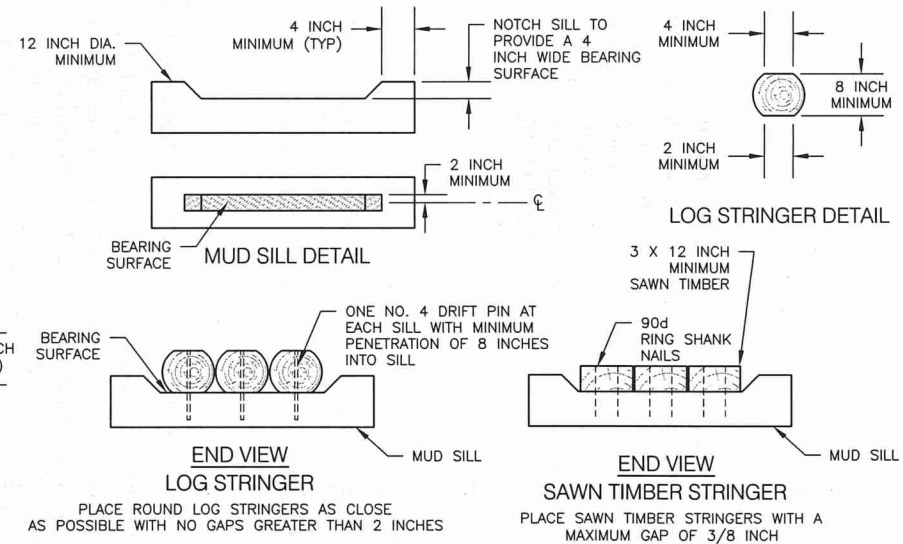
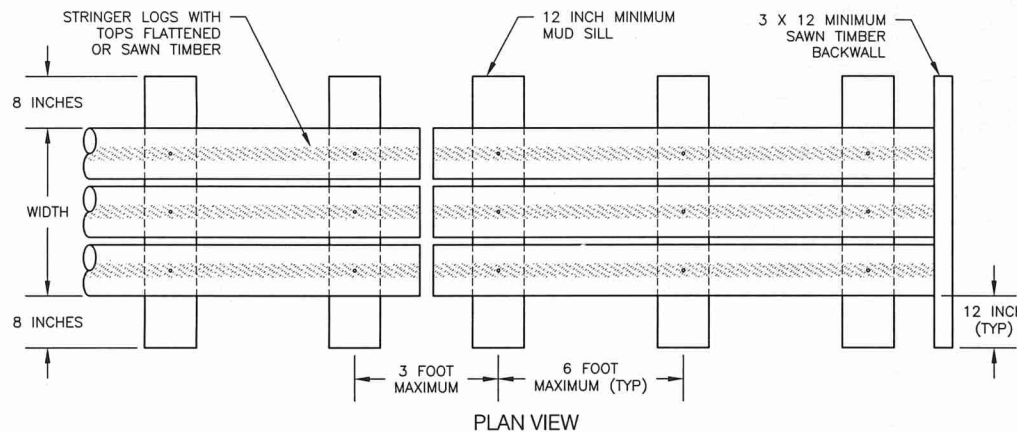
## PUNCHEON WITHOUT DECKING

TYPICAL ID	WIDTH	MUD SILL		STRINGER			BACKWALL		COMMENTS
		SPECIES	PRESERV. TYPE	TYPE	SIZE	PRESERV. TYPE	SIZE	PRESERV. TYPE	
NDP-1			P					P	

N/A WHEN NOT APPLICABLE

### NOTES:

1. PRE-DRILL HOLES FOR FASTENERS TO PREVENT SPLITTING OF LOGS OR SAWN TIMBERS.
2. RECESS END OF REBAR 1/2 INCH BELOW TOP OF STRINGERS.
3. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
4. ALL FIELD DRILLED HOLES AND CUTS SHALL BE FIELD TREATED.
5. FINAL DECK ELEVATION FOR RUNNING PLANKS OR DECKING SHALL BE NO MORE THAN 1/2 INCH DIFFERENCE IN ELEVATION.



PRESERVATIVE TREATMENT -- (REFER TO AWPA USE CATEGORY SYSTEM)			
PRESERVATIVE TYPE	TREATMENT TYPE	USE CATEGORY	COMMENTS
P1	WB	UC4A	
P2	WB	UC3B	
P3			

TREATMENT TYPE  
WB = WATERBORNE  
OT = OIL-BORNE

USE CATEGORY  
UC3B = ABOVE GROUND - EXPOSED  
UC4A = GROUND CONTACT - GENERAL USE  
UC4B = GROUND CONTACT - HEAVY DUTY

**Stand Conditions, Special Features or Characteristics**

This stand is comprised of several different stands and contains three different ages (photos 7-9). It has been combined for management purposes since they will all have same management objective. Portions of these stands have had some past management and some have never been thinned. In 1994 and 1995, a jack pine budworm infestation occurred in the Boulder Junction area and some of the jack pine was cut-out of these stands in early 2005 as a salvage and sanitation measure. Consequently stocking is highly variable from stand to stand with some stands having a basal area over 200 square feet and other areas as low as 100. Average stand diameter is 10 inches, and average height is 62 feet. Approximately 2-acres were planted to Scotch pine which is a non-native tree from Europe. Over-time consider replacing this species with native trees such as white and red pine.

**Management (Silvicultural) System**

NATURAL EVEN-AGED REGENERATION OF TIMBER TYPE WITH FUTURE THINNING - Manage the stand through its rotation (the period between initial regeneration and the stand's final cutting) as a single aged forest. Periodically thin the stand throughout the life of the stand to improve quality and vigor. Regeneration cutting will remove the old stand to provide the necessary open conditions and sunlight to regenerate the stand naturally.

Year Scheduled	Recommended Forest Management Practices
Within the next 10 years.	<p>PERIODIC THINNING – Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines. First thinning should focus on the removal of short lived species such as aspen and white birch, jack pine along with the high-risk, low vigor pines. Also during marking discriminate against scotch pine as you consider phasing this species out over time.</p> <p>Consider beginning your forest management activities away from the main camp area such as along HWY K, and or in the southeastern corner (next to the large Musky display). This provides an opportunity to slowly introduce forest management activities at the camp. Over time both campers and staff will be able to see the positive effects of management, but from a “safe” distance from the main portion of camp. At a later time, more pine areas closer to the main camp area can be thinned.</p>
Annually	Hazard Tree Evaluation and Removal.

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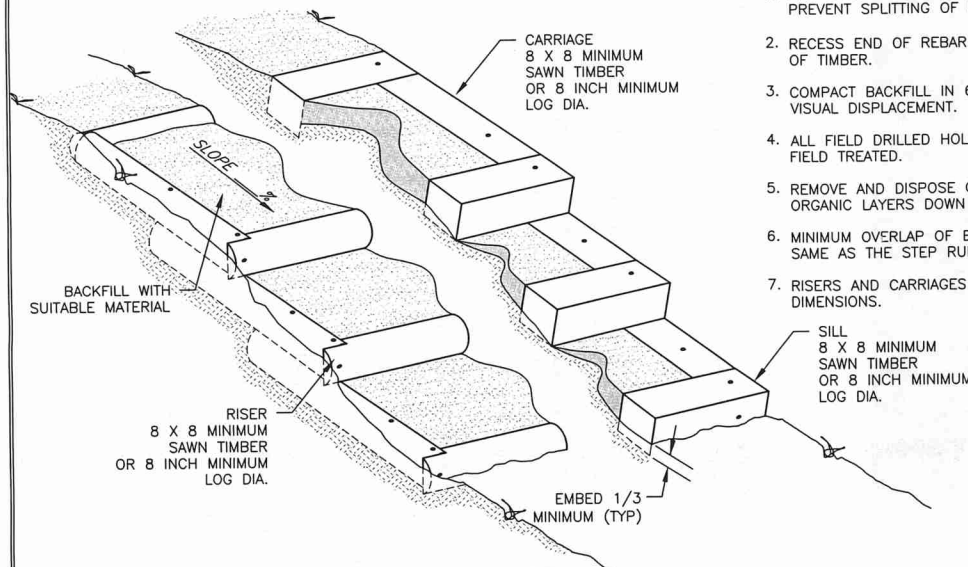
# OVERLAPPING TIMBER STEP

TYPICAL ID	MATERIAL TYPE	OVERALL LENGTH	OVERALL WIDTH	STEP RUN	COMMENTS
OTS-1	M				

N/A WHEN NOT APPLICABLE

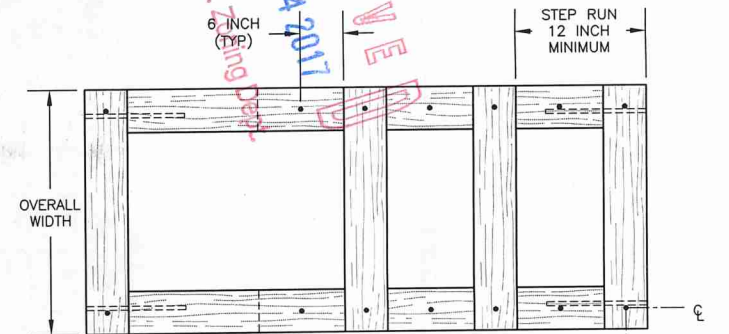
## NOTES:

1. PRE-DRILL HOLES FOR REBAR AND PINS TO PREVENT SPLITTING OF LOGS OR SAWN TIMBERS.
2. RECESS END OF REBAR 1/2 INCH BELOW TOP OF TIMBER.
3. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
4. ALL FIELD DRILLED HOLES AND CUTS SHALL BE FIELD TREATED.
5. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.
6. MINIMUM OVERLAP OF BOTTOM CARRIAGE IS THE SAME AS THE STEP RUN LENGTH.
7. RISERS AND CARRIAGES SHALL BE THE SAME DIMENSIONS.

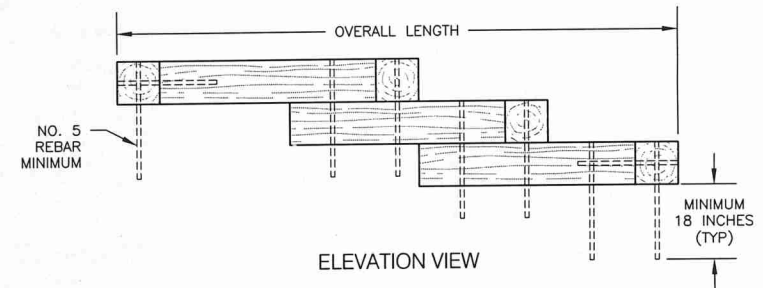


## MATERIAL TYPE

TYPE	MATERIAL	SIZE	SPECIES/ GRADE	PRESERV. TYPE	COMMENTS
M1	LOG				
M2	SAWN TIMBER				
M3	RAIL ROAD TIES				
M4					



PLAN VIEW



ELEVATION VIEW

## PRESERVATIVE TREATMENT - (REFER TO AWPA USE CATEGORY SYSTEM)

PRESERVATIVE TYPE	TREATMENT TYPE	USE CATEGORY	COMMENTS
P1	WB	UC4A	
P2	WB	UC3B	
P3			

TREATMENT TYPE  
WB = WATERBORNE  
OT = OIL-BORNE

USE CATEGORY  
UC3B = ABOVE GROUND - EXPOSED  
UC4A = GROUND CONTACT - GENERAL USE  
UC4B = GROUND CONTACT - HEAVY DUTY

U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE  
**STANDARD TRAIL PLAN**

PROJECT NAME & LOCATION

DRAWING NAME

**OVERLAPPING TIMBER STEP**

SECTION

936 - STAIRWAYS

TYPICAL ID  
**OTS**

REVISION DATE

**XX/XX/XX**

**NO SCALE**

DRAWING NO.

**STD\_936-20-02**

SHEET  
OF



STAND NUMBER 5		26 Acres
Primary Type: SB 0-5 <sup>3</sup> Secondary Type:	Black Spruce Forest – Saplings & Scattered Poletimber	Basal Area = N/A



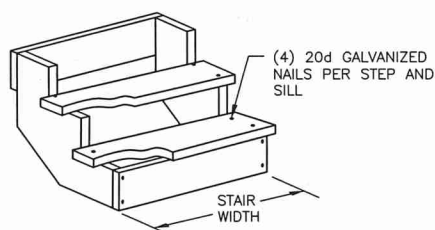
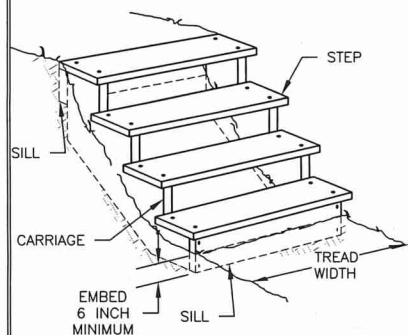
### Stand Information

Black Spruce Forests contain more than 50% black spruce; in mixed swamp conifer stands, black spruce is predominant. Tamarack, northern white cedar, balsam fir, aspen, white pine and other native trees commonly grow with black spruce.

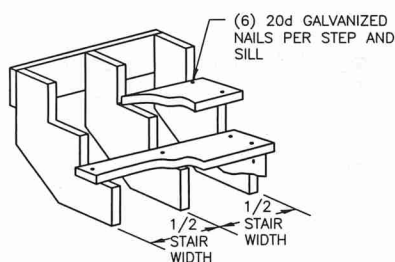
Black spruce grows almost entirely on peat bogs, but may also occur on muck-filled seepages, and along streams. Black spruce occasionally grows in mineral soil adjacent to swamps. Black spruce is subject to wind throw due to the high water table. When selecting a cutting method, consider its effect on the water table. On some sites, the growth of black spruce can be slow, making these black spruce stands non-productive.

Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that will grow on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting that is sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

This stand has a peat soil. Peat soils usually occur in wetlands, and have a surface layer of partially decomposed plant material at least 16" thick. The partial decomposition allows identification of many plant parts in the soil. Peat soils are wet, so organic matter decomposes slowly and nutrients may not always be available for tree growth. Trees that grow on peat soils are adapted to wet conditions and are typically slow growing. Take care to prevent compaction and rutting when using equipment on these soils. In general, conduct management activities only when the ground is well frozen. These soils may be unsuitable for whole-tree harvesting and the harvesting of fine woody material because of their potential for nutrient depletion.



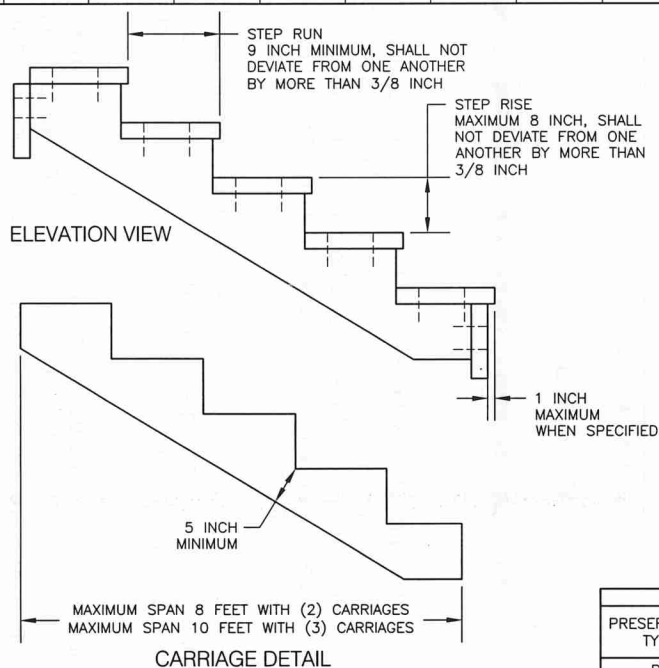
**TWO CARRIAGE OPTION**  
FOR 3 FOOT OR LESS  
STEP WIDTH



**THREE CARRIAGE OPTION**  
FOR 3 TO 6  
FOOT STEP WIDTH

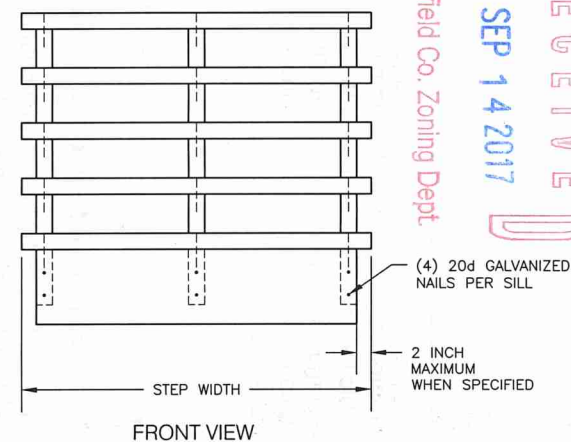
## STAIRCASE

TYPICAL ID	SPAN	CARRIAGE		SILL	STEP				SPECIES	PRESERV. TYPE	COMMENTS
		NO. OF CARRIAGES	MATERIAL DIMENSION	MATERIAL DIMENSION	WIDTH	MATERIAL DIMENSION	RUN	RISE			
STC-1			X	X		X				P	



### NOTES:

1. COMPACT BACKFILL IN 6 INCH LIFTS UNTIL NO VISUAL DISPLACEMENT.
2. REMOVE AND DISPOSE OF DUFF AND TOP ORGANIC LAYERS DOWN TO MINERAL SOIL.



PRESERVATIVE TREATMENT - (REFER TO AWPA USE CATEGORY SYSTEM)			
PRESERVATIVE TYPE	TREATMENT TYPE	USE CATEGORY	COMMENTS
P1	WB	UC4A	
P2	WB	UC3B	
P3			

**TREATMENT TYPE**  
WB = WATERBORNE  
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**USE CATEGORY**  
UC3B = ABOVE GROUND - EXPOSED  
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U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE  
**STANDARD TRAIL PLAN**

PROJECT NAME & LOCATION

DRAWING NAME

**STAIRCASE**

SECTION

**936 - STAIRWAYS**

TYPICAL ID  
**STC**

REVISION DATE  
**XX/XX/XX**

**NO SCALE**

DRAWING NO.  
**STD\_936-40-01**  
SHEET  
OF



### Stand Conditions, Special Features or Characteristics

This forest stand is considered non-productive from a timber management standpoint. Stand productivity is defined as the ability to grow 20 cubic feet per acre per year, rotation age ranges from 70 to 120 years depending on soil type (mineral vs. organic). In addition, ages for these areas are unknown and would need to be taken to determine which rotation length is appropriate. However, it is considered very productive from an ecological standpoint and be protected.

### Management (Silvicultural) System

These areas are designated as a non-forest management zones.

Year Scheduled	Recommended Forest Management Practices
N/A	No management – Protect areas by keeping mechanical equipment out. These areas serve best as a wildlife “islands” for a variety of species including amphibians, mammals and reptiles.

STAND NUMBER 6		
Primary Type: Muskeg Bog	Muskeg Bog	3 Acres

### Stand Information

Muskegs or Bogs are on lowland sites and predominantly consist of sphagnum moss, cotton grass, leatherleaf, cranberry, Labrador tea and other wetland plants. Muskegs support scattered trees, including black spruce, tamarack, and jack pine. Muskegs and bogs generally occur in muck soils that are saturated with water year round. These areas best serve as protected, non-managed areas to protect water quality and provide critical habitat for wildlife.

Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that grows on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

This stand has a muck soil. Muck soils usually occur in wetlands, and have a surface layer of decomposed plant material at least 16" thick. The extent of decomposition of plant parts prevents identification of the original vegetation. Muck soils are wet, so organic matter decomposes slowly and nutrients may not always be available for tree growth. Trees that grow on peat soils are adapted to wet conditions and are typically slow growing. Take care to prevent compaction and rutting when using equipment on these soils. In general, conduct management activities only when the ground is well frozen. These soils may be unsuitable for whole-tree harvesting and the harvesting of fine woody material because of their potential for nutrient depletion.

### Stand Conditions, Special Features or Characteristics

This small muskeg bog is located between the pine grove to the south and the access road that borders it to the north and east. A small wooden bridge crosses over it with several interpretive signs providing the visitor information of the ecological importance of this habitat.

### Management (Silvicultural) System

NO SILVICULTURAL SYSTEM APPLICABLE -- This stand is designated as non-productive. Passive management of this stand will result in the continual process of natural succession. Over long periods of time, seasonal ponds and lowland brush and grasses often convert to both lowland and upland forest.



Town, City, Village, State or Federal  
Permits May Also Be Required

LAND USE – **X**  
SANITARY – **None**  
SIGN –  
SPECIAL –  
CONDITIONAL –  
BOA –

# BAYFIELD COUNTY

# PERMIT

WEATHERIZE AND POST THIS PERMIT  
ON THE PREMISES DURING CONSTRUCTION

No. **17-0477** Issued To: **Town of Bayview / Charly Ray, Agent**

Location:  $\frac{1}{4}$  of  $\frac{1}{4}$  Section Township N. Range  
W. Town of

Par in  
Gov't Lot **3** Lot **3 & 4** Block Subdivision CSM# **772**

For: **Municipal Other: [ Stairs to the Lake (Irregular) = 352 sq. ft. ]**

**(Disclaimer):** Any future expansions or development would require additional permitting.

Condition(s): **Please see attached letter for conditions. No puncheon style boardwalks allowed in wetlands. No dimensions are approved as "approximate". If stairs and boardwalk are any dimension other than approved the application shall be amended.**

**NOTE:** This permit expires one year from date of issuance if the authorized construction work or land use has not begun.

Changes in plans or specifications shall not be made without obtaining approval.  
This permit may be void or revoked if any of the application information is found to have been misrepresented, erroneous, or incomplete.  
This permit may be void or revoked if any performance conditions are not

**Jennifer Murphy**

Authorized Issuing Official

**December 12, 2017**

Date